Abstract

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The present invention relates to a specific process for the diastereoselective synthesis of racdiorganosilylbis(2-methylbenzo[e]indenyl)zirconium compounds of the formula I,

by reacting the silyl-bridged bisindenyl ligand with a dihalozirconium bis(3,5-di-tert-butylphenoxide)-base adduct to form the diorganosilylbis(2-methylbenzo[e]indenyl)zirconium bis(3,5-di-tert-butylphenoxide) and subsequently replacing the phenoxide groups by X using suitable replacement reagents to give the compound of the formula I; where the substituents X can be identical or different and are each F, Cl, Br, I or linear, cyclic or branched C₁₋₁₀-alkyl; and the substituents R can be identical or different and are each linear, cyclic or branched C₁₋₁₀-alkyl or C₆₋₁₀-aryl; and also to the use of these compounds as catalysts.